

Table of Contents

Volume II – Phosphorus Control in Lake Watersheds: A Technical Guide to Evaluating New Development

<u>Chapter</u>		<u>Page</u>
Chapter 1	Introduction	
Chapter 2	The Watershed Phosphorus Budget	
	2.1 Watershed Per Acre Phosphorus Allocation.....	2-2
	2.2 Project Phosphorus Budget (PPB)	2-3
Chapter 3	Meeting the Project’s Phosphorus Budget	
	3.1 Estimating Stormwater Phosphorus Export from the Project	3-1
	3.2 Redevelopment or Expansion of Existing Uses.....	3-6
	3.3 Options for Reducing Phosphorus Export	3-7
	3.4 Estimating Project Phosphorus Export after Treatment (Post-PPE)..	3-8
	3.5 Evaluating Project Overall Phosphorus Export	3-10
Chapter 4	Treatment Factors for Phosphorus BMPs	
	4.1 Rules of Thumb for BMP Design and Selection	4-1
	4.2 Common BMPs and their Standard Sizing	4-2
	4.3 Determining BMP Phosphorus Treatment Factors	4-2
	4.4 Minimum Treatment Factors	4-4
	4.5 Multiple BMPs Placed in Series	4-6
Chapter 5	Credits for Mitigation and Compensation Fees	
	5.1 Types of Mitigation.....	5-1
	5.2 Estimating Credits for Mitigation	5-3
	5.3 On-site vs. Off-site Mitigation.....	5-3
	5.4 Compensation Fees	5-4
Chapter 6	Performance Standards for Smaller Projects	
	6.1 Single Family Residences and Small Subdivisions with No New Road	6-1
	6.2 LID Practices	6-3

<u>Table</u>	<u>Page</u>
Table 3.1 Algal Available Phosphorus Export (pre-treatment) for Commercial Development and Subdivisions	3-2
Table 3.2 Algal Available Phosphorus Export from Single Family Residential Lots (pre-treatment)	3-4
Table 4.1 Minimum Treatment Factors for Selected BMPs	4-4

Appendices

Appendix A	Phosphorus and Lake Water Quality
Appendix B	DEP's Method for Defining Watershed Per Acre Phosphorus Allocations
Appendix C	Per Acre Phosphorus Allocations for Selected Maine Lakes
Appendix D	Worksheets
Appendix E	Alternative Method for Small Commercial-type Developments Located Within Designated Growth Areas
Appendix F	Lake Watersheds that are Eligible for the Compensation Fee Mitigation Option